

NHGS Lunchtime Lecture Series

The New Hampshire Geological Survey, in cooperation with the USGS NH/VT District, is sponsoring a Lunchtime Lecture at the DES Auditorium in Concord, NH on Thursday, September 14, 2006 from 12-1 PM.

Lessons Learned from Analyses of Two 'Benchmark' Unconfined-Aquifer Tests

Speaker: Allen Moench

Abstract: Misconceptions pertaining to flow processes that occur during unconfined-aquifer tests have sometimes led to tests being improperly designed, executed, and analyzed. Unrealistic assumptions, in particular those regarding the interaction of the saturated zone with the unsaturated zone, have resulted in incorrect parameter estimates and incorrect predictions of aquifer performance. Learn how aquifer-test design, test duration, and methods of analysis will help obtain optimal parameter estimates.

Allen Moench, U.S. Geological Survey, was the recipient of the 2004 John Hem Award from the National Ground Water Association. Moench worked for the Illinois State Water Survey from 1969-1971, where he worked on a least-cost systems analysis for ground water pumping in the Chicago area and developed new analytical solutions for problems of well hydraulics and stream/aquifer interaction. In 1972, he commenced work with the USGS in Denver, where he worked on problems of nonisothermal heat transport in the unsaturated zone and stream/aquifer interaction. In 1975, he transferred to the USGS in Menlo Park, California, to work on the geothermal program that came into existence as a result of the energy crisis of the mid-1970s. During his career, he conducted research on various problems of fluid flow and tracer transport in assorted aquifer and laboratory systems, publishing some 70 papers in the peer-reviewed literature. His primary contributions in recent years have been the development of new analytical solutions for problems of well hydraulics for unconfined aquifers.

Certificates will be available for one (1.0) hour of continuing education for those in attendance seeking NH Professional CEU's. If you have questions, contact the NHGS at: geology@des.state.nh.us

Pre-registration is NOT necessary.